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PCT/FI00/00249

SEQUENCE LISTING

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<120> Process for partitioning of molecules

<130> 31805

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<141>

<160> 42

<170> PatentIn Ver. 2.2

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<211> 428

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<213> *Trichoderma reesei*

<220>

<221> intron

<222> (167)..(236)

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<221> intron

<222> (323)..(386)

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<223> Coding sequence of *hfb1*

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 <213> *Trichoderma reesei*

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 <221> promoter
 <222> (1) .. (2211)
 <223> *cbhl* promoter sequence

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 <223> *T. reesei cbhl* terminator

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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: annealed primer

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<210> 9
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: annealed primer

<400> 9
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<210> 10
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<223> *T. reesei* *gpd1* promotor

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<222> (1) ..(1129)

<223> *T. reesei* *gpd1* terminator

<400> 11

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<213> *Aspergillus nidulans*

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<222> (1)..(2129)
<223> *A. nidulans* *gpdA* promoter

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<223> *A. nidulans* *gpdA* gene

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<222> (2305)..(3071)
<223> *A. nidulans* *trpC* terminator

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<222> (3072)..(5726)
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<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR 5' primer

<400> 13

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<210> 14

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR 5' primer

<400> 14

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<210> 15

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR 3' primer

<400> 15

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<210> 16

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR 5' primer

<400> 16

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<210> 17
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<223> Description of Artificial Sequence: PCR 3' primer

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<210> 19

<211> 5857

<212> DNA

<213> *Saccharomyces cerevisiae* and *E. coli*

<220>

<221> promoter

<222> (1) .. (452)

<223> *S. cerevisiae* GAL1 promoter

<220>

<223> (476-495) *E. coli* T7 promoter/priming site

<220>

<223> (502-601) *E. coli* multiple cloning site

<220>
<223> (609-857) *S. cerevisiae* CYC1 transcription terminator

<220>
<223> (1039-1712) *E. coli* pMB1 (pUC-derived) origin

<220>
<221> gene
<222> (1857)..(2717)
<223> *E. coli* ampicillin resistance gene

<220>
<221> gene
<222> (2735)..(3842)
<223> *S. cerevisiae* URA3 gene

<220>
<223> (3846-5317) *S. cerevisiae* 2 micron origin

<220>
<223> (5385-5840) *E. coli* f1 origin

<220>
<223> (1-5857) Sequence of pYES2

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 <212> DNA
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<220>
 <223> (1-403) *T. reesei* hfb2 coding sequence

<220>
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 <222> (131)..(200)

<220>
 <221> intron
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<210> 21
 <211> 59
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR 5' primer

<400> 21
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<210> 22
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR 3' primer

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ggc                                                    63
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<210> 25
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR 3' primer

<400> 25
tcgtacggat cctcagagga tgttgatggg 30

<210> 26
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR 5' primer

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<210> 27
<211> 80
<212> DNA
<213> Artificial Sequence

<220>
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<210> 28
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR 5' primer

<400> 28
tgaattcggg acccaggctt gctcaagcgt c 31

<210> 29
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR 3' primer

<400> 29
tgaattccat atgtcacagg cactgagagt agta 34

<210> 30
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR 5' primer

<400> 30
gaattcggta ccctcgtccc tcgcggtccc gccgaagtga acctggtg 48

<210> 31
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR 3' primer

<400> 31
tgaattccat atgctaaccc cgtttcatct ccag 34

<210> 32
<211> 918
<212> DNA
<213> *Trichoderma reesei*

<220>
<221> terminator
<222> (1)..(918)
<223> *T. reesei hfbI* terminator

<400> 32
gatgcccgcc cggggtcaag gtgtgcccgt gagaaagccc acaaagtgtt gatgaggacc 60
atttccggta ctgggaaagt tggctccacg tgtttgggca ggtttgggca agttgtgtag 120
atattccatt cgtacgccat tcttattctc caatatttca gtacactttt cttcataaat 180
caaaaagact gctattctct ttgtgacatg ccggaaggga acaattgctc ttggtctctg 240
ttatttgcaa gtaggagtgg gagattcgcc ttagagaaag tagagaagct gtgcttgacc 300
gtggtgtgac tcgacgagga tggactgaga gtgttaggat taggtcgaac gttgaagtgt 360
atacaggatc gtctggcaac ccacggatcc catgacttga tgcaatggtg aagatgaatg 420
acagtgtgaa aggaaaagga aatgtccgcc ttcagctgat atccacgcca atgatacagc 480
gatatacctc caatatctgt gggaaacgaga catgacatat ttgtgggaac aacttcaaac 540
agcgagccaa gacctcaata tgcacatcca aagccaaaca ttggcaagac gagagacagt 600
cacattgtcg tcgaaaagatg gcatcgtacc caaatcatca gctctcatta tcgcctaaac 660
cacagattgt ttgccgtccc ccaactccaa aacgttacta caaaagacat gggcgaatgc 720
aaagacctga aagcaaacc tttttgcgac tcaattccct cctttgtcct cggaatgatg 780
atccttcacc aagtaaaaga aaaagaagat tgagataata catgaaaagc acaacggaaa 840
cgaaagaacc aggaaaagaa taaatctatc acgcaccttg tccccacact aaaagcaaca 900
gggggggtaa aatgaaat 918

<210> 33
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR 5' primer

<400> 33
 gacctcgatg cccgcccggg gtcaag 26

<210> 34
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR 3' primer

<400> 34
 gtcgacattt catTTTaccC cctcG 26

<210> 35
 <211> 1190
 <212> DNA
 <213> *Trichoderma reesei*

<220>
 <221> promoter
 <222> (1)..(1190)
 <223> *T. reesei hfb2* promoter

<400> 35
 CTCGAGCAGC tgaagcttgc atgcctgcat cctttgtgag cgactgcac cattttgcac 60'
 acactgccgt cgacgtctct cttccgacct tggccagctg gacaagcaac acaccaatga 120
 cgctttgtat tattagagta tatgcaagtc tcaggactat cgactcaact ctaccaccg 180
 aggacgatcg cggcacgata cgccctcggt ctcatggcc caagcagacc aactgcccct 240
 ggagcaagat tcagcccaag ggagatggac ggcagggcac gccaggcccc caccaccaag 300
 ccactccctt tggccaaatc agcttgcattg tcaagagaca tcgagctgtg ccttgaaatt 360
 actaacaacc agggatggga aacgaagcct gcttttgga agacaacaat gagagagaga 420
 gagagagggg gagagacaat gagtgccaca aacctggtag tgctccgcca atgcgtctga 480
 aatgtcacat ccgagtcttg gggcctctgt gagaatgtcc agagtaatac gtgttttgcg 540
 aatagtcctc tttcttgagg actggatacc tacgataccc tttttgagtt gatgcggtgc 600
 tttcgaagta ttatctggag gatagaagac gtctaggtaa ctacacaaaa ggcctatact 660
 ttggggagta gcccaacgaa aggtaactcc tacggcctct tagagccgtc atagatccta 720
 cagcctcttg gagccgtcat agatcacatc tgtgtagacc gacattctat gaataatcat 780
 ctcatcatgg ccacatacta ctacatacgt gtctctgcct acctgacatg tagcagtggc 840
 caagacacca aggccccagc atcaagcctc cctacctatc ccttccattg tacagcggca 900
 gagagattgc gatgagccct ctccctacct acagacggct gacaatgtcc gtataccacc 960
 agccaacgtg atgaaaacaa ggacatgagg aacagcctgc gagagctgga agatgaagag 1020
 ggccagaaaa aaaagtataa agaagacctc gattcccgcc atccaacaat cttttccatc 1080
 ctcatcagca cactcatcta caaccatcac cacattcact caactcctct ttctcaactc 1140
 tccaaacaca aacattcttt gttgaatacc aaccatcacc acctttcaag 1190

<210> 36
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR 5' primer

<400> 36
aagcttgcat gcctgcatcc 20

<210> 37
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR 3' primer

<400> 37
ccatggtgaa aggtggtgat ggttgg 26

<210> 38
<211> 13
<212> PRT
<213> *Trichoderma reesei*

<220>
<223> vild type *T. reesei* EGI peptide linker

<400> 38
Val Pro Arg Gly Ser Ser Ser Gly Thr Ala Pro Gly Gly
1 5 10

<210> 39
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified CBHII linker

<400> 39
Gly Ser Ser Ser Gly Thr Ala Pro Gly Gly
1 5 10

<210> 40
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Met/Thrombin
linker

<400> 40

Pro Gly Arg Pro Val Leu Thr Gly Pro Gly Met Gly Thr Ser Thr Ser
1 5 10 15

Ala Gly Pro

<210> 41

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Met-containing linker

<400> 41

Pro Gly Ala Ser Thr Ser Thr Gly Met Gly Pro Gly Gly
1 5 10

<210> 42

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: linker containing the thrombin
cleavage site

<400> 42

Gly Thr Leu Val Pro Arg Gly Pro Ala Gly Val Asn Leu Val
1 5 10